

Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
01001	1000	001	\$23,757	3a	\$151,031	\$10,590	\$29,391	4a	\$159,926	\$15,448	\$5.94
01004	4500	542	\$41,009	3a	\$190,362	\$24,412	\$51,989	4a*	\$192,259	\$35,227	\$2.28
01004		755	\$67,265	2a*	\$238,046	\$46,511	\$67,265	2a*	\$238,046	\$46,511	\$3.74
02005	3824	001	\$29,799	1a	\$188,221	\$13,389	\$31,370	2a	\$144,239	\$18,795	\$1.95
02005		002	\$33,948	3a	\$213,767	\$15,311	\$40,467	4a	\$211,501	\$22,028	\$2.22
02005		003	\$35,340	3a	\$213,767	\$16,703	\$42,470	4a	\$211,501	\$24,030	\$2.31
02005		004	\$39,052	3a	\$213,767	\$20,414	\$47,810	4a	\$211,501	\$29,370	\$2.55
02005		005	\$47,403	3a	\$213,767	\$28,766	\$59,825	4a	\$211,501	\$41,386	\$3.10
02005		008	\$29,799	1a	\$188,221	\$13,389	\$31,370	2a	\$144,239	\$18,795	\$1.95
02007	175		\$20,612	1a	\$145,410	\$7,935	\$21,288	2a	\$114,342	\$11,319	\$29.45
02012	567	001	\$61,499	3a	\$282,005	\$36,912	\$76,205	4a	\$267,599	\$52,875	\$27.12
02012		002	\$38,050	3a	\$190,362	\$21,453	\$47,719	4a	\$192,259	\$30,957	\$16.78
02012		003	\$52,958	3a	\$259,094	\$30,369	\$65,237	4a	\$248,764	\$43,548	\$23.35
02032	120	001	\$23,953	3a	\$145,176	\$11,296	\$30,053	4a	\$155,113	\$16,530	\$49.90
02033	2500	002	\$35,537	1b	\$201,491	\$17,971	\$38,458	2b	\$152,349	\$25,175	\$3.55
02033		003	\$61,749	3b	\$269,443	\$38,258	\$76,871	4b	\$252,742	\$54,835	\$6.17
02038	577	001	\$26,031	3b	\$154,667	\$12,546	\$32,084	4b	\$158,922	\$18,229	\$11.28
02043	90	001	\$16,353	1b	\$125,008	\$5,454	\$16,617	2b	\$99,539	\$7,938	\$45.43
02061	3200	001	\$232,339	5a	\$1,240,109	\$124,222	\$325,547	3a	\$1,376,633	\$205,526	\$18.15
02063	1200	002	\$33,660	1a	\$184,764	\$17,552	\$37,021	2a	\$141,825	\$24,656	\$7.01
02073	160	001	\$22,857	3b	\$160,708	\$8,846	\$27,114	4b	\$163,860	\$12,828	\$35.71
02093	25	001	\$18,440	3a	\$132,581	\$6,882	\$22,796	4a	\$144,758	\$10,176	\$184.40
02300	83	001	\$26,050	3a	\$140,271	\$13,820	\$33,464	4a	\$151,080	\$20,292	\$78.46
02367	50	001	\$47,378	3a	\$233,001	\$27,064	\$58,690	4a	\$227,313	\$38,872	QNI
02382	130	001	\$25,550	3a	\$146,502	\$12,777	\$32,301	4a	\$156,203	\$18,683	\$49.13
03002	5692	002	\$42,117	1a	\$225,655	\$22,443	\$42,117	1a	\$225,655	\$22,443	\$1.85
03021	150	001	\$17,468	3a	\$133,084	\$5,866	\$21,325	4a	\$145,172	\$8,668	\$29.11
03032	1500	003	\$57,230	3b	\$264,006	\$34,213	\$70,696	4b	\$248,298	\$49,049	\$9.54
03032		004	\$87,381	1a	\$369,218	\$55,192	\$100,151	2a	\$270,637	\$76,556	\$14.56
03067	220	001	\$33,137	3a	\$158,435	\$19,324	\$42,576	4a	\$166,013	\$28,102	\$37.66
03306	80	001	\$19,637	1a	\$136,613	\$7,726	\$20,541	2a	\$108,199	\$11,108	\$61.37
03362	300	001	\$25,253	3a	\$169,042	\$10,515	\$30,474	4a	\$174,733	\$15,240	\$21.04
03362		55-630285	\$23,985	1a	\$156,984	\$10,299	\$25,268	2a	\$122,425	\$14,595	\$19.99
03712	4500	001	\$22,625	3a	\$157,905	\$8,859	\$27,321	4a	\$165,577	\$12,885	\$1.26
04002	8435	002	\$135,023	3a	\$537,155	\$88,192	\$167,404	4a	\$477,357	\$125,786	\$4.00
04002		003	\$62,701	1a	\$303,615	\$36,231	\$69,952	2a	\$224,824	\$50,351	\$1.86
04002		005	\$21,508	1a	\$145,206	\$8,848	\$22,581	2a	\$114,200	\$12,624	\$0.64
04002		006	\$61,886	3a	\$269,061	\$38,428	\$77,480	4a	\$256,958	\$55,077	\$1.83
04002		009	\$25,586	1a	\$166,540	\$11,067	\$26,878	2a	\$129,099	\$15,623	\$0.76
04002		010	\$18,709	3a	\$145,304	\$6,041	\$22,372	4a	\$155,217	\$8,839	\$0.55

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

QNI indicates questionable data

N/A indicates industrial water usage

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System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
04002		011	\$18,763	1a	\$137,205	\$6,801	\$19,241	2a	\$108,613	\$9,772	\$0.56
04002		012	\$19,292	3a	\$143,012	\$6,823	\$23,367	4a	\$153,334	\$9,999	\$0.57
04003	500	001	\$80,918	3a	\$296,798	\$55,042	\$103,192	4a	\$279,761	\$78,801	\$40.46
04011	550	001	\$25,690	3a	\$165,727	\$11,241	\$31,304	4a	\$172,008	\$16,307	\$11.68
04030	825	004	\$28,771	3a	\$183,958	\$12,733	\$34,697	4a	\$186,995	\$18,394	\$8.72
04034	3900	003	\$50,486	1a	\$249,582	\$28,727	\$56,346	2a	\$187,090	\$40,034	\$3.24
04038	164	001	\$23,751	3a	\$151,010	\$10,585	\$29,383	4a	\$159,909	\$15,442	\$36.21
04065	65	001	\$19,969	3a	\$137,884	\$7,947	\$24,692	4a	\$149,118	\$11,691	\$76.80
04300	150	002	\$17,852	3a	\$130,539	\$6,471	\$22,066	4a	\$143,079	\$9,592	\$29.75
04341		00	\$54,115	3a	\$135,895	\$42,267	\$75,146	4a	\$147,483	\$62,288	\$90.19
04341	200	001	\$19,396	3a	\$135,895	\$7,548	\$23,981	4a	\$147,483	\$11,123	\$24.24
04341		002	\$19,999	3a	\$135,895	\$8,152	\$24,871	4a	\$147,483	\$12,013	\$25.00
04341		55-574412	\$23,019	3a	\$135,895	\$11,171	\$29,320	4a	\$147,483	\$16,462	\$28.77
04342	200	001	\$26,925	1b	\$165,947	\$12,457	\$28,727	2b	\$127,807	\$17,584	\$33.66
04343	100	001	\$19,396	3a	\$135,895	\$7,548	\$23,981	4a	\$147,483	\$11,123	\$48.49
04346	350	001	\$26,063	1a	\$161,614	\$11,973	\$27,889	2a	\$125,659	\$16,933	\$18.62
05002	2170	001	\$114,997	3a	\$500,167	\$71,390	\$140,818	4a*	\$446,949	\$101,852	\$13.25
05306	730	001	\$60,685	1a	\$318,638	\$32,905	\$66,220	2a	\$235,315	\$45,704	\$20.78
06004	500	001	\$37,370	3a	\$195,559	\$20,320	\$46,434	4a*	\$196,532	\$29,299	\$18.68
06006	400	001	\$38,842	3a	\$182,300	\$22,949	\$49,346	4a*	\$185,632	\$33,161	\$24.28
07008	900	001	\$23,985	1a	\$156,984	\$10,299	\$25,268	2a	\$122,425	\$14,595	\$6.66
07008		002	\$23,193	1a	\$156,984	\$9,507	\$24,146	2a	\$122,425	\$13,472	\$6.44
07008		55-627600	\$24,778	1a	\$156,984	\$11,091	\$26,391	2a	\$122,425	\$15,717	\$6.88
07015	2400	001	\$74,466	3a	\$214,036	\$55,805	\$98,744	4a	\$211,722	\$80,285	\$7.76
07015		002	\$56,052	3a	\$236,183	\$35,460	\$70,966	4a	\$229,929	\$50,920	\$5.84
07015		004	\$76,568	1a	\$228,810	\$56,619	\$94,086	2a	\$172,585	\$79,039	\$7.98
07015		005	\$108,129	1a	\$289,214	\$82,914	\$134,020	2a	\$214,767	\$115,296	\$11.26
07019	1125	00	\$20,756	1a	\$150,039	\$7,675	\$21,167	2a	\$117,576	\$10,916	\$4.61
07019		001	\$72,870	3b	\$305,687	\$46,219	\$90,783	4b	\$282,370	\$66,165	\$16.19
07019		002	\$20,775	3b	\$145,606	\$8,081	\$24,994	4b	\$151,515	\$11,784	\$4.62
07019		003	\$20,994	1b	\$144,749	\$8,374	\$21,801	2b	\$113,170	\$11,935	\$4.67
07019		004	\$16,654	1b	\$126,121	\$5,658	\$16,965	2b	\$100,308	\$8,220	\$3.70
07026	3740	001	\$48,020	3a	\$235,229	\$27,511	\$59,486	4a	\$229,145	\$39,508	\$3.21
07026		002	\$111,535	3b	\$505,034	\$67,504	\$135,184	4b	\$445,321	\$96,359	\$7.46
07037	37	001	\$17,415	3a	\$136,139	\$5,546	\$21,046	4a	\$147,683	\$8,171	\$117.67
07051	4800	001	\$58,199	1a	\$277,361	\$34,018	\$65,332	2a	\$206,490	\$47,330	\$3.03
07052	270	00	\$18,060	1a	\$137,539	\$6,068	\$18,206	2a	\$108,846	\$8,716	\$16.72
07052		001	\$26,092	3a	\$141,199	\$13,782	\$33,460	4a	\$151,843	\$20,221	\$24.16
07052		002	\$22,991	3a	\$141,199	\$10,681	\$28,910	4a	\$151,843	\$15,671	\$21.29
07052		003	\$26,092	3a	\$141,199	\$13,782	\$33,460	4a	\$151,843	\$20,221	\$24.16

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07055	200	55-609892	\$22,356	3a	\$155,783	\$8,774	\$27,056	4a	\$163,833	\$12,772	\$27.94
07055		55-609893	\$20,208	1a	\$147,725	\$7,329	\$20,549	2a	\$115,959	\$10,439	\$25.26
07070	3600	001	\$121,372	3b	\$387,359	\$87,601	\$155,637	4b	\$349,130	\$125,199	\$8.43
07071	8	001	\$20,838	3a	\$142,440	\$8,420	\$25,670	4a	\$152,863	\$12,343	QNI
07072	95	001	\$17,654	3a	\$135,564	\$5,835	\$21,436	4a	\$147,210	\$8,602	\$46.46
07073	150	001	\$21,525	1a	\$143,095	\$9,049	\$22,760	2a	\$112,726	\$12,932	\$35.87
07076	225	001	\$22,850	1a	\$150,039	\$9,769	\$24,144	2a	\$117,576	\$13,894	\$25.39
07078	2883	001	\$59,293	3a	\$256,681	\$36,915	\$74,456	4a	\$246,780	\$52,941	\$5.14
07078		002	\$45,291	3a	\$256,681	\$22,913	\$54,375	4a	\$246,780	\$32,860	\$3.93
07078		003	\$68,203	3a	\$256,681	\$45,825	\$87,235	4a	\$246,780	\$65,719	\$5.91
07079	2900	001	\$47,620	1a	\$263,472	\$24,650	\$51,478	2a	\$196,790	\$34,322	\$4.11
07079		002	\$52,102	1a	\$263,472	\$29,131	\$57,719	2a	\$196,790	\$40,562	\$4.49
07084	221	55-618446	\$16,634	2a	\$117,317	\$6,405	\$17,551	1a	\$149,669	\$4,503	\$18.82
07086	225	001	\$38,293	3a	\$159,098	\$24,422	\$50,027	4a	\$166,558	\$35,506	\$42.55
07089	3643	00	\$74,681	3a	\$290,269	\$49,374	\$94,626	4a	\$274,393	\$70,703	\$5.12
07089		001	\$146,317	3b	\$366,096	\$114,400	\$192,477	4b	\$331,749	\$163,554	\$10.04
07089		002	\$59,557	3a	\$310,834	\$32,457	\$71,843	4a	\$291,300	\$46,446	\$4.09
07094		002	\$59,363	1a	\$301,414	\$33,084	\$65,449	2a	\$223,286	\$45,982	\$4.07
07094		003	\$56,606	1a	\$301,414	\$30,327	\$61,617	2a	\$223,286	\$42,150	\$3.88
07094		007	\$62,120	1a	\$301,414	\$35,841	\$69,281	2a	\$223,286	\$49,814	\$4.26
07094	7439	018	\$117,540	3a	\$375,842	\$84,773	\$151,185	4a	\$344,743	\$121,129	\$3.95
07101	4438	004	\$51,680	1a	\$266,188	\$28,473	\$56,961	2a	\$198,687	\$39,639	\$2.91
07101		007	\$22,678	3b	\$143,431	\$10,173	\$27,906	4b	\$149,737	\$14,852	\$1.28
07101		008	\$22,678	3b	\$143,431	\$10,173	\$27,906	4b	\$149,737	\$14,852	\$1.28
07104	1300	55-618436	\$46,085	3a	\$215,447	\$27,302	\$57,832	4a	\$212,882	\$39,272	\$8.86
07111	150	001	\$17,456	2a	\$107,876	\$8,050	\$17,467	1a	\$136,150	\$5,597	\$29.09
07114	149	001	\$18,827	3b	\$138,478	\$6,754	\$18,827	3b	\$138,478	\$6,754	\$31.59
07121	2800	001	\$419,886	1a	\$1,741,027	\$268,097	\$477,147	2a	\$1,228,629	\$370,030	\$37.49
07128	3054	001	\$94,951	1a	\$409,736	\$59,229	\$108,154	2a	\$298,933	\$82,092	\$7.77
07129	275	001	\$20,710	3b	\$146,210	\$7,963	\$24,861	4b	\$152,009	\$11,608	\$18.83
07153	960	001	\$28,386	1a	\$173,652	\$13,247	\$30,347	2a	\$134,065	\$18,659	\$7.39
07154	730	001	\$70,453	1b	\$313,690	\$43,105	\$79,953	2b	\$229,820	\$59,916	\$24.13
07169	160	001	\$20,664	3a	\$150,480	\$7,545	\$24,913	4a	\$159,473	\$11,009	\$32.29
07189	1000	001	\$16,222	1b	\$125,307	\$5,297	\$16,402	2b	\$99,746	\$7,706	\$4.06
07215	75	001	\$17,976	1a	\$136,150	\$6,106	\$18,187	2a	\$107,876	\$8,782	\$59.92
07215		55-606783	\$17,456	2a	\$107,876	\$8,050	\$17,467	1a	\$136,150	\$5,597	\$58.19
07271	50	001	\$17,873	1a	\$133,835	\$6,205	\$18,214	2a	\$106,259	\$8,950	\$89.37
07274	56	001	\$56,005	3a	\$136,691	\$44,088	\$77,838	4a	\$148,137	\$64,923	\$250.02
07298	45	001	\$17,722	3a	\$135,232	\$5,932	\$21,557	4a	\$146,938	\$8,747	\$98.45
07305	9213	001	\$142,031	4a	\$476,767	\$100,465	\$142,031	4a	\$476,767	\$100,465	\$3.85

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07305		002	\$96,016	1a	\$413,573	\$59,960	\$109,396	2a	\$301,612	\$83,100	\$2.61
07305		003	\$83,168	1a	\$413,573	\$47,111	\$91,588	2a	\$301,612	\$65,293	\$2.26
07307	1074	001	\$80,949	1b	\$338,528	\$51,435	\$92,973	2b	\$246,971	\$71,441	\$18.84
07335	50	001	\$18,792	3a	\$135,895	\$6,944	\$23,091	4a	\$147,483	\$10,233	\$93.96
07338	1800	001	\$40,989	1b	\$204,703	\$23,142	\$45,882	2b	\$154,567	\$32,406	\$5.69
07343	300	001	\$23,327	3b	\$145,606	\$10,633	\$28,715	4b	\$151,515	\$15,505	\$19.44
07354	800	001	\$28,267	1a	\$166,244	\$13,773	\$30,683	2a	\$128,892	\$19,445	\$8.83
07366	325	001	\$25,740	1b	\$156,526	\$12,093	\$27,705	2b	\$121,302	\$17,130	\$19.80
07371	161	001	\$23,904	3a	\$151,540	\$10,692	\$29,573	4a	\$160,345	\$15,594	\$37.12
07371		002	\$34,596	3a	\$151,540	\$21,384	\$45,167	4a	\$160,345	\$31,187	\$53.72
07392	75	001	\$18,708	3a	\$139,210	\$6,571	\$22,752	4a	\$150,208	\$9,656	\$62.36
07400	240	001	\$37,626	3a	\$161,087	\$23,582	\$48,925	4a	\$168,193	\$34,261	\$39.19
07400		002	\$30,690	3a	\$161,087	\$16,646	\$38,848	4a	\$168,193	\$24,184	\$31.97
07401	760	001	\$29,638	3b	\$148,626	\$16,681	\$37,716	4b	\$153,984	\$24,291	\$9.75
07409	2000	001	\$37,752	1a	\$221,803	\$18,414	\$40,344	2a	\$167,691	\$25,724	\$4.72
07411	375	001	\$191,214	4a*	\$560,587	\$142,339	\$191,214	4a*	\$560,587	\$142,339	\$127.48
07411		002	\$48,021	3a	\$178,986	\$32,416	\$62,819	4a	\$182,907	\$46,873	\$32.01
07412	2859	001	\$72,101	3a	\$318,797	\$44,307	\$89,356	4a	\$297,846	\$63,389	\$6.30
07431	50	001	\$19,094	3a	\$135,895	\$7,246	\$23,536	4a	\$147,483	\$10,678	\$95.47
07431		002	\$21,811	3a	\$135,895	\$9,963	\$27,540	4a	\$147,483	\$14,682	\$109.05
07441	1150	001	\$59,268	3a	\$205,503	\$41,352	\$77,394	4a	\$204,707	\$59,546	\$12.88
07448	25	001	\$16,816	1a	\$131,520	\$5,350	\$16,863	2a	\$104,643	\$7,740	\$168.16
07484	100	001	\$21,049	1b	\$144,964	\$8,410	\$21,864	2b	\$113,318	\$11,985	\$52.62
07487	350	001	\$15,895	1b	\$124,858	\$5,010	\$15,962	2b	\$99,436	\$7,293	\$11.35
07500	9600	002	\$99,333	1a	\$425,518	\$62,235	\$113,260	2a	\$309,954	\$86,237	\$2.59
07500		003	\$90,442	1a	\$425,518	\$53,344	\$100,940	2a	\$309,954	\$73,917	\$2.36
07507	50	001	\$17,584	3a	\$135,895	\$5,736	\$21,311	4a	\$147,483	\$8,453	\$87.92
07618	120	001	\$17,873	1a	\$135,739	\$6,038	\$18,070	2a	\$107,589	\$8,690	\$37.23
07624	1000	001	\$36,588	3a	\$195,559	\$19,539	\$45,307	4a	\$196,532	\$28,172	\$9.15
07626	25	001	\$25,873	3a	\$132,581	\$14,314	\$33,786	4a	\$144,758	\$21,165	\$258.73
07638	950	001	\$34,123	3a	\$192,244	\$17,363	\$41,944	4a	\$193,807	\$25,047	\$8.98
07660	100	001	\$33,028	3a	\$142,525	\$20,602	\$43,533	4a	\$152,933	\$30,200	\$82.57
07671	120	001	\$25,825	1b	\$160,038	\$11,873	\$27,581	2b	\$123,726	\$16,794	\$53.80
07675	50	001	\$23,320	3a	\$135,895	\$11,473	\$29,765	4a	\$147,483	\$16,907	\$116.60
07677	32	001	\$16,979	1a	\$132,168	\$5,456	\$17,049	2a	\$105,095	\$7,886	\$132.64
07682	610	001	\$163,421	3a	\$651,124	\$106,653	\$201,806	4a	\$571,051	\$152,020	\$66.98
07683	100	001	\$28,913	3b	\$140,169	\$16,693	\$37,235	4b	\$147,071	\$24,413	\$72.28
07685	75	001	\$20,679	3a	\$139,210	\$8,542	\$25,648	4a	\$150,208	\$12,553	\$68.93
07700	900	001	\$31,037	3a	\$188,930	\$14,565	\$37,682	4a	\$191,082	\$21,022	\$8.62
07706	186	001	\$16,325	1b	\$124,905	\$5,436	\$16,585	2b	\$99,468	\$7,912	\$21.94

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

QNI indicates questionable data

N/A indicates industrial water usage

Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
07713	100	001	\$225,090	3a	\$829,319	\$152,787	\$280,204	4a	\$717,545	\$217,646	\$562.72
07727	40	001	\$36,194	1b	\$188,644	\$19,747	\$40,231	2b	\$143,479	\$27,722	QNI
07736	25	001	\$17,708	1a	\$131,520	\$6,241	\$18,153	2a	\$104,643	\$9,030	\$177.08
08006	150	001	\$19,073	1b	\$137,255	\$7,106	\$19,601	2b	\$107,996	\$10,186	\$31.79
08015	2012	358	\$49,316	3a	\$262,647	\$26,418	\$59,818	4a	\$251,685	\$37,875	\$6.13
08018	78	001	\$20,465	3a	\$139,608	\$8,294	\$25,308	4a	\$150,535	\$12,184	\$65.59
08023	320	001	\$29,711	3a	\$171,693	\$14,742	\$36,776	4a	\$176,912	\$21,352	\$23.21
08033	125	001	\$177,529	3d	\$944,339	\$95,197	\$187,833	1a	\$714,126	\$125,573	QNI
08035	737	001	\$31,654	4a	\$182,199	\$15,769	\$31,654	4a	\$182,199	\$15,769	\$10.74
08038	6000	001	\$30,638	1b	\$187,445	\$14,295	\$32,510	2b	\$142,651	\$20,073	\$1.28
08038		002	\$40,532	2b	\$144,070	\$27,972	\$40,532	2b	\$144,070	\$27,972	\$1.69
08046	285	001	\$23,403	3a	\$167,053	\$8,838	\$27,908	4a	\$173,098	\$12,817	\$20.53
08056	320	001	\$24,066	1a	\$158,836	\$10,218	\$25,254	2a	\$123,719	\$14,468	\$18.80
08061	50	001	\$21,207	3a	\$135,895	\$9,359	\$26,650	4a	\$147,483	\$13,792	\$106.04
08068	2683	001	\$288,548	3a	\$611,666	\$235,221	\$382,298	4a	\$538,613	\$335,339	\$26.89
08068		002	\$152,652	3a	\$472,928	\$111,420	\$196,015	4a	\$424,557	\$159,001	\$14.22
08077	1000	001	\$190,195	3a	\$184,952	\$174,070	\$267,786	4a	\$187,812	\$251,412	\$47.55
08078	200	001	\$68,453	1a	\$351,439	\$37,813	\$74,985	2a	\$258,222	\$52,472	\$85.57
08081	426	001	\$54,615	3a	\$278,186	\$30,362	\$66,555	4a	\$264,460	\$43,498	\$32.05
08081		002	\$36,140	3a	\$206,017	\$18,178	\$44,059	4a	\$205,130	\$26,175	\$21.21
08081		003	\$16,491	3a	\$129,266	\$5,221	\$20,135	4a	\$142,033	\$7,752	\$9.68
08081		004	\$16,686	3a	\$130,030	\$5,350	\$20,373	4a	\$142,661	\$7,935	\$9.79
08082	75	001	\$21,829	3a	\$139,210	\$9,692	\$27,338	4a	\$150,208	\$14,243	\$72.76
08129	100	001	\$81,672	3a	\$352,010	\$50,982	\$101,227	4a	\$325,150	\$72,880	\$204.18
08316	310	001	\$102,352	3a	\$437,989	\$64,166	\$126,112	4a	\$395,834	\$91,602	\$82.54
08316		002	\$24,137	3a	\$130,157	\$12,789	\$31,413	4a	\$142,765	\$18,966	\$19.46
08342	38	001	\$18,937	3a	\$134,304	\$7,228	\$23,412	4a	\$146,175	\$10,668	\$124.59
08342		002	\$26,165	3a	\$134,304	\$14,456	\$34,080	4a	\$146,175	\$21,336	\$172.14
08351	200	001	\$25,127	3a	\$155,783	\$11,545	\$31,090	4a	\$163,833	\$16,806	\$31.41
08703	304	001	\$29,100	3a	\$169,572	\$14,316	\$36,018	4a	\$175,169	\$20,746	\$23.93
08703		002	\$22,489	1a	\$157,355	\$8,770	\$23,122	2a	\$122,684	\$12,426	\$18.49
09004	7765	001	\$21,898	1a	\$154,860	\$8,397	\$22,455	2a	\$120,942	\$11,911	\$0.71
09011	1300	001	\$25,475	1a	\$166,096	\$10,994	\$26,751	2a	\$128,788	\$15,523	\$4.90
09011		002	\$45,732	3a	\$234,910	\$25,252	\$56,219	4a	\$228,883	\$36,264	\$8.79
09021	2200	001	\$45,503	3a	\$226,496	\$25,756	\$56,364	4a	\$221,965	\$37,013	\$5.17
09021		005	\$71,259	3a	\$226,496	\$51,513	\$93,377	4a	\$221,965	\$74,025	\$8.10
09021		008	\$71,259	3a	\$226,496	\$51,513	\$93,377	4a	\$221,965	\$74,025	\$8.10
09025	315	00	\$27,183	3a	\$171,031	\$12,272	\$33,153	4a	\$176,367	\$17,777	\$21.57
09025		001	\$25,430	3a	\$171,031	\$10,519	\$30,614	4a	\$176,367	\$15,237	\$20.18
09025		55-629078	\$27,183	3a	\$171,031	\$12,272	\$33,153	4a	\$176,367	\$17,777	\$21.57

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

QNI indicates questionable data

N/A indicates industrial water usage

Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
09026	4000	001	\$49,249	1a	\$252,669	\$27,221	\$54,427	2a	\$189,246	\$37,928	\$3.08
09026		007	\$102,272	3c	\$485,798	\$59,918	\$114,328	3b	\$572,087	\$64,451	\$6.39
09028	275	001	\$27,992	3a	\$165,727	\$13,543	\$34,644	4a	\$172,008	\$19,647	\$25.45
09034	950	001	\$16,072	3a	\$133,084	\$4,469	\$19,261	4a*	\$145,172	\$6,605	\$4.23
09054	75	001	\$17,456	2a	\$107,876	\$8,050	\$17,467	1a	\$136,150	\$5,597	\$58.19
09070	240	00	\$21,802	1a	\$151,428	\$8,600	\$22,557	2a	\$118,546	\$12,221	\$22.71
09070		001	\$22,519	1a	\$151,428	\$9,316	\$23,575	2a	\$118,546	\$13,240	\$23.46
09070		55-629079	\$22,115	3a	\$161,087	\$8,071	\$26,389	4a	\$168,193	\$11,726	\$23.04
10001	2788	001	\$289,809	5a	\$1,537,819	\$155,736	\$590,972	3a	\$1,872,016	\$427,763	\$25.99
10006	7095	001	\$40,780	1a	\$209,209	\$22,540	\$45,388	2a	\$158,896	\$31,535	\$1.44
10006		002	\$44,405	1a	\$221,655	\$25,080	\$49,647	2a	\$167,587	\$35,036	\$1.56
10006		003	\$42,160	3a	\$233,788	\$21,778	\$51,152	4a	\$227,960	\$31,277	\$1.49
10006		004	\$66,217	1b	\$309,408	\$39,241	\$74,333	2b	\$226,864	\$54,554	\$2.33
10006		005	\$58,247	3a	\$312,553	\$30,997	\$69,875	4a	\$292,712	\$44,355	\$2.05
10006		006	\$62,009	3a	\$294,733	\$36,313	\$76,234	4a	\$278,063	\$51,991	\$2.18
10006		007	\$16,242	3a	\$129,266	\$4,972	\$19,766	4a	\$142,033	\$7,383	\$0.57
10006		008	\$60,018	3a	\$320,189	\$32,102	\$71,994	4a	\$298,991	\$45,926	\$2.11
10006		55-626904	\$38,739	1a	\$202,203	\$21,111	\$42,990	2a	\$154,003	\$29,563	\$1.37
10035	4700	002	\$125,304	3a	\$336,984	\$95,924	\$164,442	4a	\$312,797	\$137,171	\$6.67
10035		003	\$106,119	3a	\$336,984	\$76,739	\$137,008	4a	\$312,797	\$109,737	\$5.64
10048	124	001	\$74,012	3a	\$275,895	\$49,958	\$94,473	4a	\$262,577	\$71,581	\$149.22
10049	925	001	\$132,556	3a	\$434,744	\$94,653	\$169,408	4a	\$393,165	\$135,130	\$35.83
10057	300	001	\$35,199	3a	\$169,042	\$20,462	\$44,890	4a	\$174,733	\$29,656	\$29.33
10060	3500	001	\$29,978	1a	\$175,714	\$14,658	\$32,450	2a	\$135,505	\$20,636	\$2.14
10060		003	\$44,669	1a	\$242,740	\$23,506	\$48,670	2a	\$182,312	\$32,775	\$3.19
10064	1800	006	\$27,551	3a	\$180,179	\$11,842	\$33,152	4a	\$183,888	\$17,120	\$3.83
10064		007	\$38,043	1a	\$204,765	\$20,191	\$41,848	2a	\$155,793	\$28,265	\$5.28
10093	840	001	\$93,097	1b	\$379,211	\$60,036	\$107,289	2b	\$275,061	\$83,308	\$27.71
10117	400	002	\$27,349	1a	\$166,244	\$12,855	\$29,386	2a	\$128,892	\$18,149	\$17.09
10118	480	001	\$105,184	3a	\$180,179	\$89,476	\$145,380	4a	\$183,888	\$129,348	\$54.78
10123	135	001	\$56,006	3a	\$147,165	\$43,176	\$76,776	4a	\$156,748	\$63,110	\$103.72
10134	45	001	\$17,327	1b	\$129,504	\$6,037	\$17,675	2b	\$102,644	\$8,726	\$96.26
10142	522	001	\$17,013	1b	\$124,408	\$6,167	\$17,627	2b	\$99,125	\$8,985	\$8.15
10142		002	\$16,191	1b	\$124,408	\$5,345	\$16,429	2b	\$99,125	\$7,787	\$7.75
10144	150	001	\$20,016	1a	\$143,095	\$7,541	\$20,605	2a	\$112,726	\$10,777	\$33.36
10152	300	001	\$24,778	1a	\$156,984	\$11,091	\$26,391	2a	\$122,425	\$15,717	\$20.65
10157	8125	001	\$226,331	3d	\$1,130,675	\$127,754	\$238,088	3a	\$1,161,844	\$136,794	\$6.96
10157		002	\$291,995	3a	\$1,411,635	\$168,923	\$344,729	4a	\$1,196,266	\$240,433	\$8.98
10162	81	230	\$20,915	3a	\$140,005	\$8,709	\$25,942	4a	\$150,862	\$12,789	\$64.55
10171	573	225	\$28,431	3a	\$167,252	\$13,850	\$35,189	4a	\$173,261	\$20,083	\$12.40

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Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
10171		226	\$42,281	3a	\$167,252	\$27,699	\$55,272	4a	\$173,261	\$40,166	\$18.45
10188	45	001	\$36,857	3b	\$155,271	\$23,320	\$47,773	4b	\$159,415	\$33,875	\$204.76
10206	380	001	\$26,834	1a	\$164,392	\$12,502	\$28,787	2a	\$127,599	\$17,663	\$17.65
10207	300	001	\$24,778	1a	\$156,984	\$11,091	\$26,391	2a	\$122,425	\$15,717	\$20.65
10208	80	001	\$24,385	2b	\$136,826	\$12,456	\$24,462	1b	\$179,009	\$8,855	\$76.20
10208		002	\$18,429	2b	\$116,866	\$8,240	\$18,886	1b	\$150,102	\$5,799	\$57.59
10217	29	001	\$16,078	3a	\$133,111	\$4,472	\$19,268	4a	\$145,194	\$6,609	\$138.60
10218	78	001	\$30,418	3a	\$139,608	\$18,246	\$39,928	4a	\$150,535	\$26,804	\$97.49
10260	36	001	\$17,071	1a	\$132,539	\$5,516	\$17,155	2a	\$105,354	\$7,969	\$118.55
11005	164	001	\$20,660	1a	\$144,391	\$8,072	\$21,431	2a	\$113,631	\$11,524	\$31.49
11012	689	002	\$23,105	1a	\$153,651	\$9,709	\$24,252	2a	\$120,098	\$13,782	\$8.38
11014	8999	003	\$41,437	1a	\$216,988	\$22,519	\$45,802	2a	\$164,328	\$31,475	\$1.15
11017	5500	001	\$76,516	3a	\$372,340	\$44,054	\$92,756	4a	\$341,863	\$62,951	\$3.48
11017		002	\$120,571	3a	\$372,340	\$88,108	\$155,707	4a	\$341,863	\$125,902	\$5.48
11018	2110	001	\$46,808	3a	\$269,144	\$23,343	\$55,864	4a	\$257,026	\$33,456	\$5.55
11018		002	\$46,808	3a	\$269,144	\$23,343	\$55,864	4a	\$257,026	\$33,456	\$5.55
11019	4370	001	\$18,168	3a	\$131,633	\$6,691	\$22,458	4a	\$143,979	\$9,905	\$1.04
11019		002	\$23,962	3a	\$129,801	\$12,646	\$31,184	4a	\$142,472	\$18,762	\$1.37
11021	3603	001	\$137,663	3d	\$809,465	\$67,090	\$154,449	1a	\$651,100	\$97,684	\$9.55
11024	630	001	\$22,730	1a	\$158,373	\$8,922	\$23,394	2a	\$123,395	\$12,636	\$9.02
11024		002	\$27,767	3a	\$171,031	\$12,856	\$34,000	4a	\$176,367	\$18,623	\$11.02
11030	7250	001	\$104,168	3a	\$449,682	\$64,963	\$128,075	4a	\$405,446	\$92,727	\$3.59
11030		002	\$75,736	1a	\$352,983	\$44,961	\$84,996	2a	\$259,299	\$62,389	\$2.61
11030		004	\$68,819	1a	\$352,983	\$38,044	\$75,398	2a	\$259,299	\$52,791	\$2.37
11031	2500	002	\$63,318	3a	\$352,010	\$32,628	\$74,991	4a	\$325,150	\$46,643	\$6.33
11032	375	001	\$67,470	3a	\$178,986	\$51,865	\$90,943	4a	\$182,907	\$74,996	\$44.98
11036	990	002	\$26,677	1a	\$175,041	\$11,417	\$27,848	2a	\$135,035	\$16,075	\$6.74
11039	7800	001	\$352,524	3a	\$749,767	\$287,156	\$466,006	4a	\$652,146	\$409,150	\$11.30
11042	400	001	\$26,430	1a	\$166,244	\$11,937	\$28,090	2a	\$128,892	\$16,853	\$16.52
11042		002	\$25,512	1a	\$166,244	\$11,018	\$26,794	2a	\$128,892	\$15,556	\$15.95
11056	3000	001	\$65,557	3a	\$328,145	\$36,948	\$79,485	4a	\$305,531	\$52,848	\$5.46
11085	140	001	\$25,533	3b	\$162,520	\$11,364	\$30,886	4b	\$165,341	\$16,471	\$45.59
11085		002	\$22,517	3b	\$128,692	\$11,297	\$28,678	4b	\$137,689	\$16,674	\$40.21
11087	660	001	\$22,452	3b	\$138,961	\$10,337	\$27,865	4b	\$146,083	\$15,129	\$8.50
11089	50	001	\$22,717	3a	\$135,895	\$10,869	\$28,875	4a	\$147,483	\$16,017	\$113.58
11089		003	\$22,717	3a	\$135,895	\$10,869	\$28,875	4a	\$147,483	\$16,017	\$113.58
11097	292	001	\$27,522	3a	\$167,981	\$12,877	\$33,826	4a	\$173,861	\$18,668	\$23.56
11097		002	\$24,572	1a	\$156,244	\$10,950	\$26,151	2a	\$121,908	\$15,523	\$21.04
11100	1070	001	\$56,813	3b	\$313,420	\$29,488	\$67,374	4b	\$288,690	\$42,204	\$13.27
11105	95	001	\$17,966	3a	\$141,862	\$5,598	\$21,496	4a	\$152,388	\$8,210	\$47.28

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

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Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
11204	130	001	\$20,903	3a	\$146,502	\$8,131	\$25,508	4a	\$156,203	\$11,889	\$40.20
11347	3500	001	\$54,598	3a	\$283,949	\$29,843	\$66,214	4a	\$269,198	\$42,744	\$3.90
11396	60	001	\$15,759	2b	\$100,456	\$7,001	\$15,835	1b	\$126,335	\$4,821	\$65.66
11405	250	001	\$27,037	3a	\$162,412	\$12,877	\$33,459	4a	\$169,283	\$18,700	\$27.04
11557	95	001	\$18,316	3a	\$141,862	\$5,948	\$22,009	4a	\$152,388	\$8,723	\$48.20
11706	248	001	\$22,170	3a	\$161,341	\$8,104	\$26,454	4a	\$168,402	\$11,772	\$22.35
11712	57	001	\$17,558	1a	\$134,483	\$5,833	\$17,711	2a	\$106,712	\$8,407	\$77.01
12001	1550	002	\$22,239	3a	\$139,958	\$10,037	\$27,890	4a	\$150,823	\$14,740	\$3.59
12001		003	\$17,611	3a	\$131,557	\$6,142	\$21,640	4a	\$143,916	\$9,092	\$2.84
12001		004	\$162,883	3a	\$460,200	\$122,761	\$211,310	4a	\$414,093	\$175,207	\$26.27
12009	2400	001	\$27,419	1a	\$171,874	\$12,435	\$29,105	2a	\$132,824	\$17,525	\$2.86
12009		002	\$64,983	3a	\$294,097	\$39,343	\$80,527	4a	\$277,540	\$56,330	\$6.77
12009		003	\$32,156	3a	\$180,179	\$16,448	\$39,809	4a	\$183,888	\$23,777	\$3.35
12009		004	\$24,821	3a	\$154,722	\$11,332	\$30,710	4a	\$162,961	\$16,503	\$2.59
12009		006	\$86,256	3a	\$367,920	\$54,180	\$106,914	4a	\$338,230	\$77,426	\$8.99
12009		007	\$39,492	3a	\$205,635	\$21,564	\$48,908	4a	\$204,816	\$31,052	\$4.11
12013	120	001	\$195,013	3d	\$993,220	\$108,420	\$202,035	3a	\$994,786	\$115,306	QNI
12015	66	001	\$24,312	3a	\$171,269	\$9,381	\$28,981	4a	\$176,564	\$13,588	\$92.09
12022	350	001	\$24,353	1a	\$161,614	\$10,263	\$25,470	2a	\$125,659	\$14,514	\$17.39
12025	5	005	\$16,563	1a	\$129,668	\$5,258	\$16,639	2a	\$103,349	\$7,628	QNI
12025		006	\$17,676	3a	\$129,929	\$6,349	\$21,848	4a	\$142,578	\$9,418	QNI
13001	733	001	\$26,251	3a	\$152,177	\$12,984	\$32,956	4a	\$160,868	\$18,930	\$8.95
13001		002	\$101,774	3a	\$530,205	\$55,549	\$120,352	4a	\$471,644	\$79,232	\$34.71
13001		55-561786	\$21,902	1a	\$151,830	\$8,665	\$22,672	2a	\$118,826	\$12,312	\$7.47
13002	25	006	\$20,367	3a	\$132,581	\$8,808	\$25,645	4a	\$144,758	\$13,025	\$203.67
13008	1600	001	\$51,155	1b	\$272,151	\$27,428	\$55,728	2b	\$201,138	\$38,192	\$7.99
13011	2000	002	\$208,485	3d	\$1,250,735	\$99,441	\$238,338	4d	\$1,188,194	\$134,746	\$26.06
13012	5000	001	\$23,675	3a	\$137,603	\$11,679	\$30,164	4a	\$148,887	\$17,184	\$1.18
13012		002	\$70,316	3a	\$296,057	\$44,505	\$88,055	4a	\$279,151	\$63,717	\$3.52
13012		003	\$38,664	3b	\$184,388	\$22,588	\$48,568	4b	\$183,216	\$32,594	\$1.93
13012		004	\$85,752	3a	\$339,282	\$56,172	\$107,757	4a	\$314,686	\$80,321	\$4.29
13012		005	\$70,767	3a	\$244,737	\$49,430	\$91,597	4a	\$236,961	\$70,938	\$3.54
13015	2000	001	\$90,907	3a	\$167,148	\$76,335	\$125,793	4a	\$173,175	\$110,695	\$11.36
13015		002	\$69,888	3a	\$167,148	\$55,315	\$95,312	4a	\$173,175	\$80,214	\$8.74
13015		004	\$46,655	3a	\$167,148	\$32,083	\$61,622	4a	\$173,175	\$46,524	\$5.83
13015		55-519944	\$62,144	3a	\$167,148	\$47,571	\$84,082	4a	\$173,175	\$68,984	\$7.77
13015		55-534876	\$24,410	1a	\$155,661	\$10,839	\$25,963	2a	\$121,502	\$15,370	\$3.05
13015		55-543661	\$57,718	3a	\$167,148	\$43,146	\$77,665	4a	\$173,175	\$62,567	\$7.21
13015		55-605026	\$67,675	3a	\$167,148	\$53,102	\$92,103	4a	\$173,175	\$77,005	\$8.46
13019	600	001	\$24,203	3a	\$155,783	\$10,621	\$29,745	4a	\$163,833	\$15,461	\$10.08

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

QNI indicates questionable data

N/A indicates industrial water usage

Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
13019		002	\$24,665	3a	\$155,783	\$11,083	\$30,417	4a	\$163,833	\$16,134	\$10.28
13019		003	\$24,203	3a	\$155,783	\$10,621	\$29,745	4a	\$163,833	\$15,461	\$10.08
13020	175	001	\$22,866	3a	\$152,469	\$9,573	\$28,002	4a	\$161,108	\$13,956	\$32.67
13025	4300	00	\$31,950	3a	\$192,613	\$15,157	\$38,787	4a	\$194,110	\$21,864	\$1.86
13025		002	\$33,466	3a	\$192,613	\$16,673	\$40,974	4a	\$194,110	\$24,051	\$1.95
13025		003	\$33,466	3a	\$192,613	\$16,673	\$40,974	4a	\$194,110	\$24,051	\$1.95
13025		004	\$31,192	3a	\$192,613	\$14,399	\$37,694	4a	\$194,110	\$20,771	\$1.81
13025		005	\$27,316	1a	\$173,446	\$12,194	\$28,853	2a	\$133,921	\$17,178	\$1.59
13025		006	\$34,224	3a	\$192,613	\$17,431	\$42,067	4a	\$194,110	\$25,144	\$1.99
13025		007	\$30,434	3a	\$192,613	\$13,642	\$36,601	4a	\$194,110	\$19,678	\$1.77
13025		008	\$40,974	4a	\$194,110	\$24,051	\$40,974	4a	\$194,110	\$24,051	\$2.38
13025		009	\$34,224	3a	\$192,613	\$17,431	\$42,067	4a	\$194,110	\$25,144	\$1.99
13027	200	001	\$26,050	3a	\$155,783	\$12,468	\$32,434	4a	\$163,833	\$18,150	\$32.56
13028	28	001	\$20,504	3a	\$132,978	\$8,911	\$25,819	4a	\$145,085	\$13,170	\$183.07
13035	300	55-601619	\$25,537	3a	\$169,042	\$10,799	\$30,886	4a	\$174,733	\$15,652	\$21.28
13038	125	001	\$22,261	3a	\$145,839	\$9,546	\$27,535	4a	\$155,658	\$13,964	\$44.52
13038		002	\$21,116	3a	\$145,839	\$8,401	\$25,859	4a	\$155,658	\$12,289	\$42.23
13039	1500	002	\$37,706	1a	\$198,653	\$20,386	\$41,775	2a	\$151,525	\$28,564	\$6.28
13041	1000	001	\$23,966	1a	\$160,071	\$10,011	\$25,028	2a	\$124,581	\$14,167	\$5.99
13041		002	\$25,804	1a	\$163,874	\$11,517	\$27,368	2a	\$127,237	\$16,275	\$6.45
13041		003	\$22,180	1a	\$152,940	\$8,846	\$22,989	2a	\$119,601	\$12,562	\$5.55
13042	450	001	\$26,672	1a	\$170,874	\$11,774	\$28,118	2a	\$132,125	\$16,599	\$14.82
13044	800	002	\$34,118	3a	\$182,300	\$18,224	\$42,518	4a	\$185,632	\$26,334	\$10.66
13046	2385	00	\$50,093	3a	\$192,509	\$33,310	\$64,965	4a	\$194,025	\$48,049	\$5.25
13046		001	\$41,033	3a	\$165,809	\$26,577	\$53,557	4a	\$172,075	\$38,555	\$4.30
13046		002	\$71,030	3a	\$212,852	\$52,473	\$93,874	4a	\$210,749	\$75,500	\$7.45
13046		003	\$29,341	3a	\$148,167	\$16,423	\$37,730	4a	\$157,572	\$23,993	\$3.08
13046		004	\$48,269	3a	\$167,069	\$33,704	\$63,968	4a	\$173,111	\$48,875	\$5.06
13049	80	001	\$20,542	3a	\$139,873	\$8,347	\$25,403	4a	\$150,753	\$12,259	\$64.19
13049		002	\$28,889	3a	\$139,873	\$16,694	\$37,662	4a	\$150,753	\$24,519	\$90.28
13051	2976	001	\$47,550	3a	\$260,791	\$24,813	\$57,388	4a	\$250,159	\$35,578	\$3.99
13051		002	\$73,669	3a	\$260,791	\$50,932	\$94,838	4a	\$250,159	\$73,028	\$6.19
13051		003	\$54,080	3a	\$260,791	\$31,343	\$66,750	4a	\$250,159	\$44,940	\$4.54
13052	360	001	\$80,245	3a	\$176,997	\$64,814	\$109,563	4a	\$181,272	\$93,759	\$55.73
13055	125	001	\$23,025	3a	\$145,839	\$10,310	\$28,652	4a	\$155,658	\$15,081	\$46.05
13056	125	55-568193	\$20,279	1a	\$140,780	\$8,005	\$21,149	2a	\$111,109	\$11,462	\$40.56
13059	810	001	\$26,800	1a	\$161,207	\$12,745	\$28,959	2a	\$125,374	\$18,028	\$8.27
13060	284	001	\$25,743	3b	\$144,035	\$13,185	\$32,340	4b	\$150,231	\$19,242	\$22.66
13060		002	\$33,915	3b	\$160,708	\$19,904	\$43,150	4b	\$163,860	\$28,864	\$29.85
13063	3070	302	\$183,561	3a	\$332,785	\$154,548	\$247,996	4a	\$309,346	\$221,026	\$14.95

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

QNI indicates questionable data

N/A indicates industrial water usage

Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
13063		55-613021	\$51,832	1a	\$271,342	\$28,175	\$56,850	2a	\$202,287	\$39,213	\$4.22
13070	485	001	\$86,542	3a	\$193,570	\$69,666	\$117,470	4a	\$194,897	\$100,478	\$44.61
13070		002	\$39,843	3a	\$193,570	\$22,967	\$50,117	4a	\$194,897	\$33,125	\$20.54
13071	25	001	\$23,809	3b	\$127,846	\$12,663	\$30,652	4b	\$136,997	\$18,708	\$238.09
13071		002	\$30,707	3b	\$128,692	\$19,487	\$40,767	4b	\$137,689	\$28,763	\$307.07
13072	100	001	\$22,372	3a	\$142,525	\$9,946	\$27,913	4a	\$152,933	\$14,579	\$55.93
13075	70	008	\$21,441	3b	\$132,002	\$9,932	\$26,853	4b	\$140,395	\$14,613	\$76.57
13075		009	\$27,236	3b	\$152,251	\$13,962	\$33,986	4b	\$156,946	\$20,303	\$97.27
13077	200	001	\$39,904	3a	\$155,783	\$26,322	\$52,601	4a	\$163,833	\$38,317	\$49.88
13081	1200	001	\$91,725	4a	\$261,321	\$68,942	\$91,725	4a	\$261,321	\$68,942	\$19.11
13084	275	001	\$26,196	3a	\$159,496	\$12,291	\$32,416	4a	\$166,885	\$17,867	\$23.81
13092	200	001	\$73,196	3a	\$262,912	\$50,274	\$94,039	4a	\$251,903	\$72,077	\$91.50
13095	450	001	\$35,770	3a	\$188,930	\$19,299	\$44,514	4a	\$191,082	\$27,854	\$19.87
13100	100	001	\$22,194	3a	\$142,525	\$9,768	\$27,652	4a	\$152,933	\$14,319	\$55.48
13103	300	001	\$32,357	3a	\$169,042	\$17,620	\$40,771	4a	\$174,733	\$25,537	\$26.96
13104	2300	001	\$41,531	3b	\$176,656	\$26,129	\$53,176	4b	\$176,896	\$37,753	\$4.51
13104		002	\$61,347	3b	\$222,566	\$41,943	\$78,968	4b	\$214,424	\$60,273	\$6.67
13104		003	\$32,239	3b	\$153,894	\$18,822	\$41,155	4b	\$158,290	\$27,354	\$3.50
13104		004	\$36,796	3b	\$165,057	\$22,406	\$47,050	4b	\$167,415	\$32,455	\$4.00
13104		005	\$70,629	3b	\$247,937	\$49,012	\$90,822	4b	\$235,163	\$70,319	\$7.68
13105	1324	001	\$36,814	3a	\$217,038	\$17,892	\$44,406	4a	\$214,190	\$25,732	\$6.95
13105		002	\$50,412	3a	\$217,038	\$31,489	\$63,963	4a	\$214,190	\$45,289	\$9.52
13106	3262	001	\$39,210	4b	\$170,624	\$24,334	\$39,210	4b	\$170,624	\$24,334	\$3.01
13106		002	\$50,112	3b	\$206,920	\$32,072	\$63,730	4b	\$201,635	\$46,151	\$3.84
13106		006	\$315,180	4b	\$274,370	\$291,259	\$315,180	4b	\$274,370	\$291,259	\$24.16
13108	750	001	\$32,765	1b	\$181,218	\$16,965	\$35,914	2b	\$138,351	\$23,852	\$10.92
13109	35	001	\$40,265	3a	\$218,364	\$21,227	\$49,295	4a	\$215,280	\$30,526	\$287.61
13113	75	001	\$49,742	3a	\$144,540	\$37,140	\$67,850	4a	\$154,590	\$54,372	\$165.81
13114	1000	001	\$43,045	3a	\$184,367	\$26,971	\$55,292	4a	\$187,331	\$38,959	\$10.76
13114		002	\$31,058	3a	\$146,691	\$18,269	\$40,342	4a	\$156,358	\$26,711	\$7.76
13114		003	\$25,513	3a	\$138,214	\$13,463	\$32,824	4a	\$149,389	\$19,799	\$6.38
13114		004	\$26,513	3a	\$140,569	\$14,258	\$34,123	4a	\$151,325	\$20,930	\$6.63
13114		005	\$65,123	3a	\$258,776	\$42,562	\$82,698	4a	\$248,503	\$61,033	\$16.28
13116	1400	001	\$43,345	4a	\$218,332	\$24,310	\$43,345	4a	\$218,332	\$24,310	\$7.74
13121	450	001	\$54,341	3a	\$188,930	\$37,869	\$71,317	4a	\$191,082	\$54,658	\$30.19
13121		002	\$49,971	3a	\$188,930	\$33,500	\$65,010	4a	\$191,082	\$48,351	\$27.76
13126	200	001	\$20,874	1a	\$147,725	\$7,995	\$21,498	2a	\$115,959	\$11,388	\$26.09
13127	260	001	\$17,658	3a	\$137,514	\$5,669	\$21,316	4a	\$148,814	\$8,341	\$16.98
13138	75	001	\$123,136	3b	\$260,381	\$100,435	\$165,398	4b	\$245,335	\$144,008	\$410.45
13130	1035	001	\$29,130	1a	\$169,207	\$14,378	\$31,697	2a*	\$130,961	\$20,279	\$7.04

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

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Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

System ID	Avg. Pop.	POE ID	Lowest Annualized Cost	Technology with Lowest Annualized Cost	Capital Cost for Lowest Cost Option	Annual O&M Costs for Lowest Cost Option	Second Lowest Annualized Cost	Technology with Second Lowest Annualized Cost	Capital Cost for Second Lowest Cost Option	Annual O&M Costs for Second Lowest Cost Option	Estimated Monthly Cost Increase
13141	100	002	\$17,287	1a	\$130,005	\$5,953	\$17,663	2a	\$103,585	\$8,632	\$43.22
13141		55-524180	\$20,176	1a	\$138,465	\$8,104	\$21,175	2a	\$109,492	\$11,629	\$50.44
13154	25	001	\$16,307	3a	\$132,581	\$4,748	\$19,642	4a	\$144,758	\$7,021	\$163.07
13164	240	001	\$22,115	3a	\$161,087	\$8,071	\$26,389	4a	\$168,193	\$11,726	\$23.04
13184	400	001	\$32,768	3a	\$182,300	\$16,874	\$40,568	4a	\$185,632	\$24,383	\$20.48
13187	800	001	\$32,768	3a	\$182,300	\$16,874	\$40,568	4a	\$185,632	\$24,383	\$10.24
13190	55	001	\$29,427	3a	\$158,185	\$15,636	\$37,195	4a	\$165,807	\$22,740	\$133.76
13192	75	001	\$18,051	3a	\$139,210	\$5,914	\$21,786	4a	\$150,208	\$8,690	\$60.17
13208	25	001	\$18,524	1b	\$135,114	\$6,744	\$18,973	2b	\$106,517	\$9,686	\$185.24
13211	40	55-525590	\$20,470	3a	\$134,569	\$8,738	\$25,656	4a	\$146,393	\$12,893	\$127.94
13215	35	001	\$23,397	3a	\$133,907	\$11,723	\$30,025	4a	\$145,848	\$17,309	\$167.12
13218	25	001	\$17,061	3a	\$137,667	\$5,058	\$20,428	4a	\$148,939	\$7,443	\$170.61
13218		002	\$16,260	2a	\$104,750	\$7,127	\$16,407	1a	\$131,674	\$4,927	\$162.60
13218		55-514309	\$17,262	1a	\$131,520	\$5,796	\$17,508	2a	\$104,643	\$8,385	\$172.62
13320	25	001	\$18,716	3a	\$132,581	\$7,157	\$23,203	4a	\$144,758	\$10,583	\$187.16
13340	60	001	\$21,769	3b	\$132,920	\$10,181	\$27,272	4b	\$141,145	\$14,966	\$90.70
13345	75	001	\$16,739	3a	\$129,266	\$5,470	\$20,504	4a	\$142,033	\$8,121	\$55.80
13348	180	001	\$191,302	3a	\$153,131	\$177,951	\$273,432	4a	\$161,653	\$259,338	\$265.70
13351	35	001	\$16,993	1a	\$132,227	\$5,465	\$16,993	1a	\$132,227	\$5,465	\$121.38
13373	320	001	\$21,254	1a	\$149,242	\$8,243	\$21,931	2a	\$117,018	\$11,729	\$16.60
13378	175	001	\$20,690	3a	\$152,469	\$7,397	\$24,830	4a	\$161,108	\$10,784	\$29.56
13408	150	001	\$15,797	3a	\$131,812	\$4,305	\$18,937	4a	\$144,126	\$6,372	\$26.33
13419	210	001	\$21,785	1a	\$148,651	\$8,825	\$22,729	2a	\$116,606	\$12,563	\$25.93
13426	70	001	\$19,367	1a	\$135,687	\$7,537	\$20,225	2a	\$107,553	\$10,848	\$69.17
13435	35	001	\$17,820	1b	\$128,690	\$6,601	\$18,452	2b	\$102,082	\$9,552	\$127.29
13444	6000	007	\$181,971	3a	\$394,438	\$147,582	\$242,198	4a	\$360,030	\$210,809	\$7.58
13470	36	001	\$18,861	3a	\$134,039	\$7,175	\$23,317	4a	\$145,957	\$10,592	\$130.98
13511		001	\$22,767	1b	\$143,679	\$10,241	\$24,408	2b	\$112,431	\$14,606	\$158.11
13513		001	\$22,767	1b	\$143,679	\$10,241	\$24,408	2b	\$112,431	\$14,606	\$158.11
14003	222	001	\$34,467	3b	\$166,749	\$19,929	\$43,572	4b	\$168,797	\$28,855	\$38.81
14014	445	001	\$28,505	1a	\$170,411	\$13,648	\$30,734	2a	\$131,802	\$19,243	\$16.01
14018	420	001	\$27,962	3a	\$184,952	\$11,837	\$33,470	4a	\$187,812	\$17,096	\$16.64
14025	300	001	\$30,084	3a	\$169,042	\$15,346	\$37,476	4a	\$174,733	\$22,242	\$25.07
14032	100	001	\$26,279	3a	\$142,525	\$13,853	\$33,640	4a	\$152,933	\$20,307	\$65.70
14032		002	\$20,240	3a	\$142,525	\$7,814	\$24,788	4a	\$152,933	\$11,455	\$50.60
14098	458	001	\$30,010	3a	\$189,990	\$13,446	\$36,139	4a	\$191,954	\$19,404	\$16.38
14099	793	001	\$28,271	3a	\$181,836	\$12,418	\$34,097	4a	\$185,251	\$17,946	\$8.91
14314	212	001	\$27,483	3a	\$157,374	\$13,763	\$34,420	4a	\$165,141	\$20,022	\$32.41
14322	200	001	\$21,541	1a	\$147,725	\$8,661	\$21,541	1a	\$147,725	\$8,661	\$26.93
14361	50	001	\$26,633	4b*	\$157,934	\$12,863	\$26,633	4b*	\$157,934	\$12,863	\$133.16

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Table ES-12: Summary of Lowest Cost and Second Lowest Cost for Impacted Small Water Systems Serving <10,000 Persons

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14363	250	001	\$33,819	4b*	\$161,063	\$19,777	\$33,819	4b*	\$161,063	\$19,777	\$33.82
14363		002	\$34,926	4a*	\$159,879	\$20,987	\$34,926	4a*	\$159,879	\$20,987	\$34.93
14399	150	001	\$32,203	3a	\$149,154	\$19,199	\$41,842	4a	\$158,383	\$28,034	\$53.67
14414	300	001	\$44,862	3a	\$169,042	\$30,124	\$58,895	4a	\$174,733	\$43,661	\$37.38
14442	350	001	\$34,587	3a	\$175,671	\$19,272	\$43,595	4a	\$180,182	\$27,886	\$24.71
14505	75	001	\$77,848	3a	\$139,210	\$65,711	\$109,655	4a	\$150,208	\$96,560	\$259.49
15021	250	001	\$27,037	3a	\$162,412	\$12,877	\$33,459	4a	\$169,283	\$18,700	\$27.04
15023	300	001	\$387,023	1a	\$1,461,723	\$259,585	\$448,465	2a	\$1,033,579	\$358,354	N/A
15026	230	005	\$59,355	3a	\$159,761	\$45,426	\$80,597	4a	\$167,103	\$66,029	\$64.52
15029	936	001	\$35,366	3a	\$191,316	\$18,686	\$43,790	4a	\$193,044	\$26,960	\$9.45
15038	200	001	\$20,874	1a	\$147,725	\$7,995	\$21,498	2a	\$115,959	\$11,388	\$26.09
15477	1000	001	\$78,792	3a	\$195,559	\$61,743	\$106,159	4a	\$196,532	\$89,024	\$19.70
20026	170	001	\$22,752	1b	\$150,102	\$9,666	\$23,922	2b	\$116,866	\$13,733	\$33.46
20036	725	001	\$25,514	1a	\$162,772	\$11,322	\$27,032	2a	\$126,467	\$16,006	\$8.80
20068	200	001	\$21,207	1a	\$147,725	\$8,328	\$21,972	2a	\$115,959	\$11,862	\$26.51
20331	2365	001	\$43,658	1a	\$238,702	\$22,847	\$47,515	2a	\$179,492	\$31,866	\$4.61
20405	1232	001	\$34,231	3a	\$210,939	\$15,841	\$41,034	4a	\$209,176	\$22,797	\$6.95
20439	750	001	\$25,376	1a	\$163,929	\$11,084	\$26,758	2a	\$127,275	\$15,662	\$8.46
20478	200	001	\$19,398	3a	\$141,994	\$7,019	\$23,588	4a	\$152,497	\$10,292	\$24.25
20487	200	001	\$21,207	1a	\$147,725	\$8,328	\$21,972	2a	\$115,959	\$11,862	\$26.51
20495	35	001	\$20,786	3a	\$140,721	\$8,518	\$25,706	4a	\$151,450	\$12,502	\$148.47
20549	8900	001	\$66,062	3a	\$297,839	\$40,095	\$81,865	4a	\$280,617	\$57,400	\$1.86
20549		002	\$106,156	3a	\$297,839	\$80,190	\$139,265	4a	\$280,617	\$114,800	\$2.98
20549		003	\$106,156	3a	\$297,839	\$80,190	\$139,265	4a	\$280,617	\$114,800	\$2.98
20549		004	\$106,156	3a	\$297,839	\$80,190	\$139,265	4a	\$280,617	\$114,800	\$2.98
20549		005	\$106,156	3a	\$297,839	\$80,190	\$139,265	4a	\$280,617	\$114,800	\$2.98
20549		006	\$106,156	3a	\$297,839	\$80,190	\$139,265	4a	\$280,617	\$114,800	\$2.98
20549		008	\$106,156	3a	\$297,839	\$80,190	\$139,265	4a	\$280,617	\$114,800	\$2.98
20566	900	001	\$165,850	3b	\$244,071	\$144,571	\$227,690	4b	\$232,003	\$207,463	\$46.07
20583	600	001	\$228,246	3d	\$1,358,195	\$109,833	\$261,368	4d	\$1,290,731	\$148,837	\$95.10
20583		002	\$308,943	3d	\$1,725,189	\$158,534	\$357,926	4d	\$1,640,911	\$214,865	\$128.73
20583		006	\$80,375	3a	\$208,817	\$62,170	\$107,575	4a	\$207,432	\$89,491	\$33.49
20583		009	\$505,938	3d	\$2,747,589	\$266,392	\$589,230	4d	\$2,616,468	\$361,116	N/A
			\$24,100,000		\$109,700,000	\$14,200,000	\$29,300,000		\$103,200,000	\$20,300,000	

* indicates that due to high pH, GFH with pH adjustment was considered the most feasible alternative

QNI indicates questionable data

N/A indicates industrial water usage